



MegaBall™ **Installation Manual**

 **Arecont Vision**
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Arecont Vision MegaBall™ Installation Manual

MegaBall™ Wall Mount Version (-W) Installation Manual

Inside the box:

- A. Arecont Vision MegaBall™ camera with wall mount (indoor use only)
- B. CD with AV100 software and user manuals (license key required for recording)
- C. Mounting template
- D. Pack of three (3) wood screws and three (3) dry wall anchors
- E. One double-sided hex key (fixed focal lens version only)
- F. Security L-Key

Not included but needed:

- #1 Phillips head screwdriver

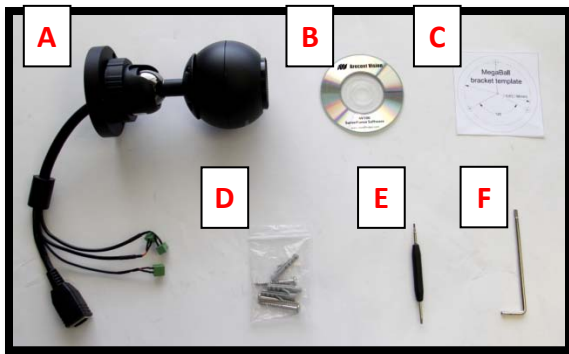


Image 1

Mounting the Camera:

1. Remove the camera and hardware from the box.
2. Using the mounting template, prepare the mounting surface for camera installation.

3. Plug the Ethernet cable into the MegaBall™ PoE female RJ45 connector. (**Image 2**)
*NOTE: If the camera will be powered via PoE, please skip to **step 5**.*



Image 2

4. If the camera will be powered by an AC or DC power supply, connect external power with pigtail cable connector.

*NOTE 1: Ensure that the polarity of the DC input on the camera matches the way that the wires are installed in the connector shown in **Image 2**.*

NOTE 2: AC power does not have polarity.

5. Align the holes on the camera wall mount with the prepared holes on the mounting surface. Attach the camera to the mounting surface with the wood screws or any other hardware suitable for the mounting surface.

Adjusting the Tilt, Pan, Z-Axis (yaw):

6. To adjust the camera tilt, pan or z-axis (yaw), loosen the ring on the wall mount bracket as shown in **Image 3** then adjust as necessary and retighten the ring.



Image 3

NOTE : The 3-axis bracket allows 360° camera body rotation, 90° tilt and 360° bracket rotation for easy installation in any location. (Image 4)



Image 4

CAUTION: Adjusting the camera without loosening the bracket ring may result in scratches on the bracket joint. Incorrect

installation practices are not covered under warranty!

Adjusting the Focus, Iris and Field of View:

7. For the vari-focal model, adjust the focus, iris and field of view using the provided Security L-Key (**Image 1F**) as shown in **Image 5**.

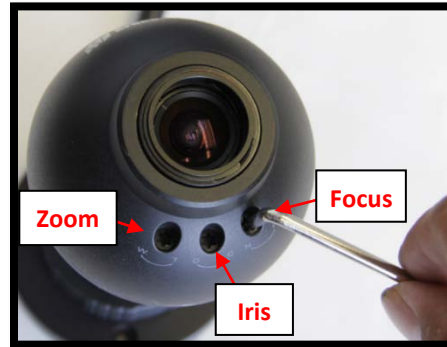


Image 5

8. For the fixed-focal model, adjust the focus by loosening the two set screws on the front shell as shown in **Image 6** using supplied double sided hex key (**Image 1E**). Adjust the lens adapter to focus the camera as shown in **Image 7**. Retighten the set screws once focusing is complete.



Image 6



Image 7

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MegaBall™ Dome Version (-D) Installation Manual

Inside the box:

- A. Arecont Vision MegaBall™ camera with in-ceiling mount (indoor use only)
- B. Surface mount (preassembled on dome)
- C. O-ring (preassembled on bezel)
- D. Dome cover (Bubble)
- E. CD with AV100 software and user manuals (license key required for recording)
- F. Security L-Key
- G. One double-sided hex key (fixed focal lens version only)
- H. Pack of three (3) wood screws and three (3) dry wall anchors
- J. Mounting template

Not included but needed:

- #1 Phillips head screwdriver



Image 1

Mounting the Camera:

1. Remove the camera and hardware from the box.

2. Using the mounting template, prepare the mounting surface for camera installation
3. Plug Ethernet cable into the MegaBall™ PoE female RJ45 connector. (**Image 2**)
*NOTE: If the camera will be powered via PoE, please skip to **step 5**.*

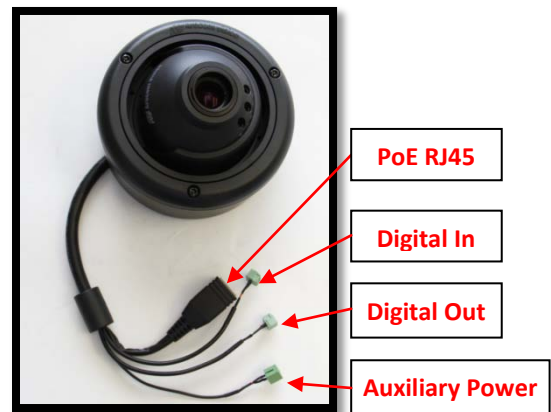


Image 2

4. If the camera will be powered by an AC or DC power supply, connect external power with pigtail cable connector.

*NOTE 1: Ensure that the polarity of the DC input on the camera matches the way that the wires are installed in the connector shown in **Image 2**.*

NOTE 2: AC power does not have polarity.

- Using the provided Security L-key (**Image 1F**), loosen the three (3) screws securing the dome cover (**Image 3**). Remove the vandal resistant dome cover. *NOTE: Do not remove the screws from the dome cover.*



Image 3

- Loosen the three (3) machine screws (**Image 4**) and remove the in-ceiling mount camera from the surface mount housing. (**Image 4**)

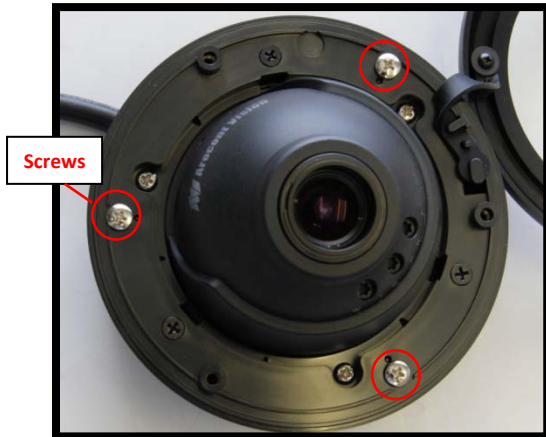


Image 4

In-ceiling Mount Installation (Optional)

- Using the mounting template, cut a hole in the surface for mounting.
- Insert the in-ceiling mount camera into the hole.
- Tighten the “lever screws” until the flush mount is snug, as shown in **Image 5**. The “Support Arm” will ride down the screw to compress the mounting surface. *NOTE: Do not over-torque the lever screws.*

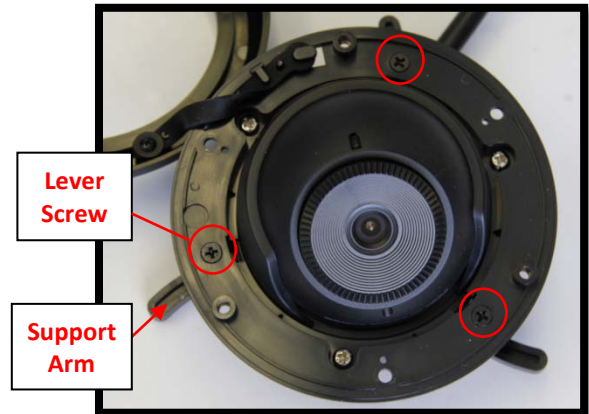


Image 5

Surface mount installation

- Align the holes in the surface mount with the prepared holes on the mounting surface with the wood screws or any optional hardware suitable for the mounting surface.
- Attach the in-ceiling camera to the surface mount.

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Adjusting the Tilt, Pan, Z-Axis (Yaw):

12. To adjust the camera tilt, pan or z-axis (yaw), loosen the 3 set screws on the in-ceiling mount as shown in **Image 6**. Then adjust as necessary and retighten the 3 set screws.

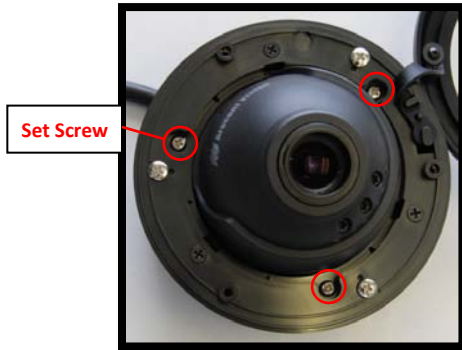


Image 6

*NOTE : The 3 axis in-ceiling camera allows 360° camera body rotation, 90° tilt, and 360° camera sleeve rotation for easy installation in any location as shown in **Image 7**.*

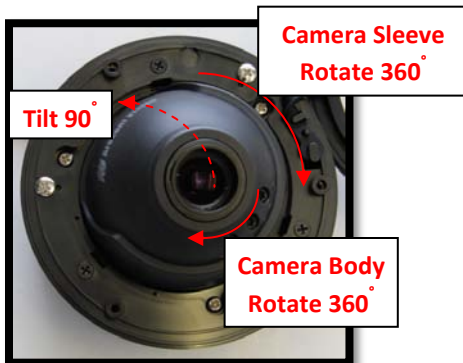


Image 7

Adjusting the Focus, Iris and Field of View:

13. For the vari-focal model, adjust focus, iris and field of view using the provided Security L-Key (**Image 1F**) as shown in **Image 8**.

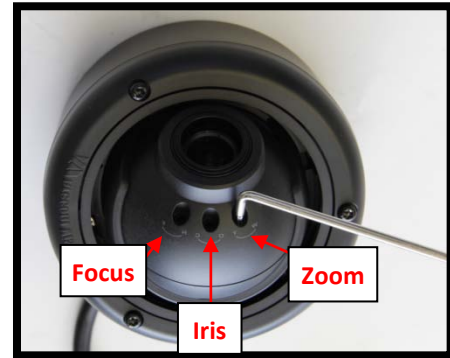


Image 8

14. For the fixed-focal model, adjust the focus by loosening the two set screws on the front shell as shown in **Image 9** using the supplied double sided hex key (**Image 1G**).

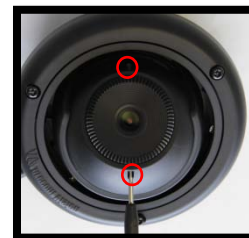


Image 9



Image 10

15. Adjust the lens adapter to focus the camera as shown in **Image 10**. Retighten the set screws once focusing is complete.

Dome Cover (Bubble) Installation (Optional):

- 16. Remove the O-ring (**Image 1C**) from the bezel by pushing on the 4 drift pins on the back of bezel shown in **Image 11**.
- 17. Attach the provided dome cover (**Image 1D**) to the bezel as shown in **Image 12**.

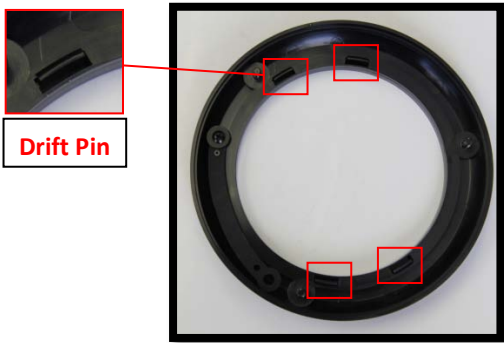


Image 11



Image 12

- 18. Remove the protective film from the bubble.
NOTE: Take precaution not to scratch the bubble.
- 19. Secure the dome cover to the camera using the provided Security L-Key (**Image 1F**.)

Optional: Connecting Digital I/O:

- 20. To use the digital I/O, connect the digital I/O to the pigtail cable connector as shown in **Image 2**.

NOTE: Table 1 shows the electrical characteristics and Table 2 shows cable color for digital I/O.

Electrical Characteristics:		Min	Max	Camera
Input voltage (V) (measured between + and – terminals)	ON	2.9	6.3	IR & DN Versions
	OFF	0	1.3	
Output current (mA) (measured between + and – terminals) Applied Voltage Range: 0 - 80V	ON	-	50	DN version Only
	OFF	-	0.1	

Table 1

NOTE: Both the input and the output are electrically isolated from the rest of the camera’s electrical circuitry via general-purpose photo couplers. The input is additionally protected with a serial 250 Ohm resistor and a debouncing circuit. Duration of any input signal should be at least 5ms to comply with the requirements of the debouncing circuit.

Yellow	Digital OUT +
Red	Digital OUT –
Green	Digital IN +
Black	Digital IN -

Table 2

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Camera Installation:

21. Install the AV100 application manager Software. (**Image 13**, found on the CD).
22. Run the AV100 application manager by double clicking on the icon shown below. (**Image 14**, found on your desktop).

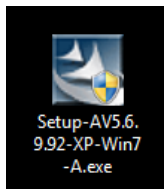


Image 13

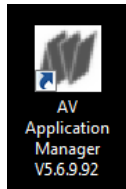


Image 14

23. Select “Run” next to “Setup Cameras” from the AV100 application manager as shown in **Image 15** and wait for “Arecont Vision Camera Installer” window to appear as shown in **Image 16**.



Image 15

24. Click “Mode” tab to select desired install mode on the Arecont Vision Camera Installer as shown in **Image 16**.

NOTE 1: Basic Mode (default setting): software will automatically discover and change / assign IP address to match PC subnet.

NOTE 2: Advanced Mode: software will automatically discover but allow manual update of

the IP address. See “AV100 Installation Manual” (found on the CD) for details on Advanced Mode.

NOTE3: User can verify camera model number and FW version of all cameras as shown in **Image 16**.

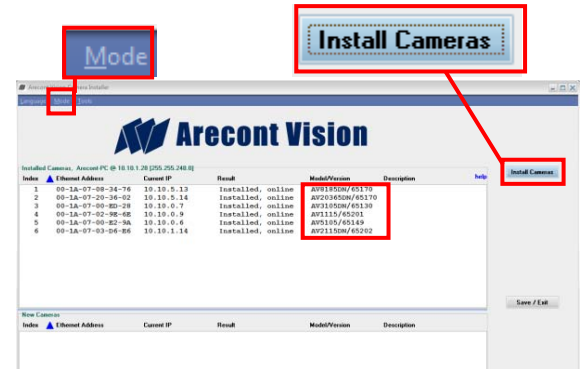


Image 16

25. For basic mode, select “Install Cameras” on the Arecont Vision Camera Installer as shown in **Image 16**.
26. Confirm that all the cameras connected to the network switch appear in the upper window.
27. Repeat **Step 25** if all of the cameras do not appear in the upper window.

CAUTION: If the software does not find a camera, the software utility may be blocked by the anti-virus or Windows® firewall. Before turning them off, please consult your IT manager.

NOTE : Double click the camera model on the Camera Installer as shown in **Image 17** to access the camera web interface. See “AV Camera Web Page User Manual” (found on the CD) for details on the web interface.

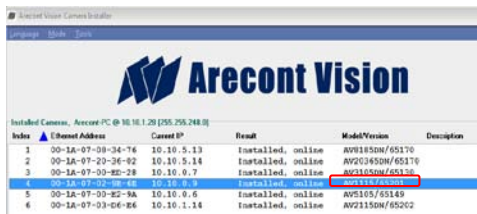


Image 17

- 28. When all cameras are discovered and installed and display “Installed, online”, select “Save/Exit.” The AV100 application main menu will appear.
- 29. From the “AV100 Application Manager” menu, select “Run” next to “Live video” to view live images.

NOTE: See the “AV100 Installation Manual” (found on CD) for details on camera configurations.

Leading
the **way** in
Megapixel
video

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